

Title (en)
Background energy estimation

Title (de)
Hintergrundenergieschätzung

Title (fr)
Estimation de l'énergie de fond

Publication
EP 1125275 A1 20010822 (EN)

Application
EP 99940979 A 19990810

Priority
• US 9917999 W 19990810
• US 37103399 A 19990810

Abstract (en)
[origin: US6157670A] A method of estimating background noise in a signal. The signal is divided into blocks of equal predetermined length. The minimum energy of the signal during the length of each block is determined. The minimum energy determined for the current block is compared to a previous determination of minimum energy. If the current minimum energy exceeds a predetermined maximum energy level, the current block minimum energy is discarded and the previous determination remains unchanged. If the current block minimum energy is below the previous determination, the previous estimate is reduced by the difference between the previous determination and current minimum energy. If the current energy is above the previous determination but below the maximum, the previous estimate is increased by half of the difference between the current energy and the previous estimate. The increase factor may also be adjusted to increase the current estimated energy level by a factor of any amount between and including 0 and 1. The estimation of minimum energy, or background energy, therefore decreases in direct proportion to a drop in minimum energy determination but increases only as a partial factor of new determinations.

IPC 1-7
G10L 11/00

IPC 8 full level
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H04B 17/21 (2015.01 - EP US); **H04B 17/26** (2015.01 - EP US); **H04B 17/309** (2015.01 - EP US); **G10L 21/0208** (2013.01 - EP US); **G10L 2025/786** (2013.01 - EP US)

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